## 

$$\mathbf{1}_{\square\square\square\square\square} \ f(x) = x \ln(1+x) - \ d(x+1)(x>0) = 0 \ \partial_{\square\square\square\square\square} \partial_{\square\square\square\square\square\square}$$

$$g(x) = f(x) - \frac{2x}{1+x} \cdot 0$$

$$0200000 a = 0$$

$$2 \bmod \frac{1}{2} \times \frac{3}{4} \times \frac{5}{6} \times \dots \times \frac{2n-1}{2n} < \sqrt{\frac{1}{2n+1}} < \sqrt{2} \sin \sqrt{\frac{1}{2n+1}}$$

$$010000 \stackrel{f(x)...g(x)}{=} 0000$$

$$200 \, ^{D} \, ^$$

$$400000 f(x) = e^{x} 0^{(x)} = -\frac{a}{2}x^{2} - x$$

$$0000 a \in R_{0} e_{000000000} e = 2.71828 \cdots 0$$

$$0100 h(x) = f(x) + g'(x) + g$$

$$\sum_{j=1}^{n} (\frac{j}{n})^n < m$$

$$f(x) = 2\ln x + \frac{k}{x} - kx$$

$$50000 \qquad f(x) = 0$$

$$0 \mid 0 \mid k \mid ... \downarrow 1$$

$$0 \mid 0 \mid 0 \mid k \mid ... \downarrow 1$$

$$f(x) = \frac{alnx + a - 1}{x}$$

01000 <sup>f(x)</sup>00000

$$200 a = 1$$

$$(ii)_{\square\square\square} \frac{f(2)}{2} + \frac{(3)}{3} + \dots + \frac{f(n)}{n} < \frac{n}{2} + \frac{1}{2n+2} - \frac{3}{4}$$

$$70000000 \ f(x) \ 00 \ f(x-2) = f(-x) \ 0 \ f(-1) = 1 \ 0 \ f(0) = 2 \ 0 \ f(x) = e^x \ 0$$

$$20000 \stackrel{X.0}{=} 2g(\cancel{x})..f(\cancel{x})$$

$$\frac{1}{2g(1)+1} + \frac{1}{2g(2)+2} + \dots + \frac{1}{2g(n)+n} < \frac{1}{2} (n \in N)$$

$$a = \frac{1}{2} \underset{\square \square \square \square}{\square \square \square} g(x) = \frac{f(x)}{X} \underset{\square}{\square} [m_{\square} m + 1](m > 0) \underset{\square \square \square \square \square}{\square \square \square}$$

$$\frac{1}{\sqrt{e}} + \frac{1}{2(\sqrt{e})^{2}} + \frac{1}{3(\sqrt{e})^{3}} + \dots + \frac{1}{n(\sqrt{e})^{n}} < \frac{7}{2e}$$

$$900000 \left\{ X_{_{\!\! n}} \right\}_{\,0\,0\,0} X_{_{\!\! n}} = 1_{_{\!\! 0}} X_{_{\!\! n}} = X_{_{\!\! n+1}} + \ln(1+X_{_{\!\! n+1}}) (n \in N) \\ 00000 n \in N_{\,0\,0}$$

$$\operatorname{did}_{0} < X_{n+1} < X_{n}$$

$$\lim_{n\to\infty}\frac{1}{2^{n+1}},,X_n,\frac{1}{2^{n+2}}$$

$$1000000 f(x) = \sin^2 x \sin 2x_0$$

$$\square 1 \square \square \square \stackrel{f(x)}{=} \square \square \square^{(0,\pi)} \square \square \square \square$$

010000 <sup>a</sup>0 <sup>b</sup>000

$$f(x) = h(1+x) - \frac{x(1+\lambda x)}{1+x}$$

$$(1)_{0} x.0_{00} f(x), 0_{00} \lambda_{00000}$$

$$(II)_{000} \{a_n\}_{000} a_n = 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}, \quad | \quad | \quad : a_{2n} - a_n + \frac{1}{4n} > In 2$$

 $20000^{X_0}a_{000}$ 

$$\sum_{k=1}^{n} \frac{1}{\sqrt{4k^2 - 1}} > \frac{1}{2} \ln(2n+1) (n \in N)$$

$$1400000 f(x) = \ln x_0 g(x) = \frac{3}{2} - \frac{a}{x_0} (a_{0000})$$

$$010000 e^{f(x)} = g(x) 000 [\frac{1}{2} 0^{1}] 0000000 a_{000000}$$

$$0200 a = 10000000 g(x) < f(x) < x - 20[4 0^{+\infty}] 00000$$

\_3\_\_\_\_ (Tex translation failed) \_ (  $n \in N$  ) \_\_\_\_\_  $ln2 \approx 0.693$ )

1500000 
$$f(x) = hx_0$$
  $g(x) = \frac{3}{2} - \frac{a}{x}(a_{00000})$ 

$$0100 \ a = 100000 \ \varphi(\mathbf{X}) = f(\mathbf{X}) - g(\mathbf{X}) \ \mathbf{X} \in [4_0 + \infty) \ \mathbf{000000}$$

$$\frac{5}{4}n + \frac{1}{60} < \sum_{k=1}^{n} [2f(2k+1) - f(k) - f(k+1)] < 2n+1, n \in \mathbb{N} + 0.00000 \text{ and } n \ge 0.6931)$$

16 
$$\square$$
  $\square$   $f(x) = x - \frac{\partial}{\partial x}(\partial x) = 2\ln x$ 

 $01000^{\left[1\right]}0^{+\infty}) 000000 \ ^{X}0000 \ ^{f(X)} ... \mathcal{G}^{(X)}0000000 \ ^{\partial}000000$ 

$$f(x_1) + f(x_2) + \cdots + f(x_{k-1}), 16g(x_k)$$

$$30000 \sum_{i=1}^{n} \frac{4i}{4\hat{r}-1} > \ln(2n+1) \pmod{n} \in N$$

$$f(x) = \ln(x+1) - \frac{\partial x}{x+a}(a>1)$$

01000 <sup>f(x)</sup>00000

$$\lim_{n\to\infty} a_{n} = 1_{n} a_{n+1} = \ln(a_{n} + 1) \lim_{n\to\infty} \frac{2}{n+2} < a_{n}, \ \frac{3}{n+2} (n \in N) = 0$$

1800000 
$$f(x) = In(x+a) - x^2 - x_0 x = 0$$

 $010000 \, ^{a}000000 \, ^{f(x)}00000$ 

$$2 + \frac{3}{4} + \frac{4}{9} + \dots + \frac{n+1}{n} > h(n+1)$$

1900000 
$$f(x) = X \cup g(x) = X + \sqrt{X}$$

$$0 = \int f(x) = f(x) - g(x) = 0$$

$$\min_{\{a_n\} \in N\}} (n \in N) \max_{\{a_n\} \in A} a_n = a(a > 0) \max_{\{a_n\} \in A} f(a_{n+1}) = g(a_n) \max_{\{a_n\} \in A} M_{\text{consists}} = N \max_{\{a_n\} \in A} a_{n+1} = a(a > 0) \max_{\{a_n\} \in A} f(a_{n+1}) = g(a_n) \max_{\{a_n\} \in A} f(a_n) = g(a_n) \max_{\{a_n\} \in A} f(a_n) = g(a_n) \max_{\{a_n\} \in A} f(a_n) = g(a_n) = g(a_n) \max_{\{a_n\} \in A} f(a_n) = g(a_n) = g(a$$

$$20000 f(x) = \frac{a+x}{1+x}(x>0) = f(x) = f(x) = (1 - f_{010}) = 0000 f_{000000} = \frac{11}{2}$$

\_1\_\_*a*\_

$$2000 g(x) = x(f(x))^{2} 00000$$



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